PGDCA 1st Semester

PGDCA

Paper–PGD-1001 : Computer Fundamentals

Time Allowed : Three Hours]   [Maximum Marks : 80

Note : Attempt **five** questions in all, including question No. **1** in Section A, which is compulsory, and taking **one** question each from Sections B, C, D and E.

SECTION–A
(Compulsory Question)

1. (a) Define computer booting process.

   (b) Compare and contrast compilers and assemblers.

   (c) Define an interrupt.

   (d) Define seek time in the context of hard disk.

   (e) Define GUI.

   (f) What is the utility of control panel in Windows ?

   (g) In MS-Excel the formula in cell A2 is = B2 + C2. On copying the formula into cell A3, what will the formula be ?

   (h) Name two page formatting features in MS-Word.   8×2=16

SECTION–B

2. (a) What is Computer ? Identify the major components of a computer, and explain their purposes and interactions.

   (b) What is an Operating System ? Explain various functions provided by an Operating System.

   8,8

3. (a) What is a number system ? Name different types of number systems and their purpose.

   (b) Convert the decimal number 12.50 into its fixed point binary fraction form.

   (c) Convert the unsigned fixed point binary fraction 101101.01 into decimal (base 10) form.

   (d) Differentiate between ASCII codes and EBCDIC computer codes.

   8,2,2,4

SECTION–C

4. (a) What is the difference between an input device and an output device ? Give an example and description of commonly used two different input devices and two different output devices.

   (b) What is Random Access Memory (RAM) ? What is its need ? How is this different from ROM, PROM and EPROM ?

   8,8

5. (a) What is computer virus ? How do you detect, prevent and remove viruses on computers ?

   (b) How is data organized on the hard disk ? List out the main limitations of magnetic tapes as a secondary storage device.

   8,8

SECTION–D

6. (a) Explain FOUR internal DOS commands and FOUR external DOS commands, giving syntax and examples.

   (b) Provide an overview of various file and folder management features of Windows Operating System. 8,8

7. Discuss the structure of UNIX operating system. Explain the syntax and use of the following UNIX commands with examples : passwd, kill, echo, wall, cp, mkdir, echo, pwd. 16

SECTION–E

8. What is word processing ? Explain the following features in the context of MS-Word by taking examples :

   (a) Setting up multiple columns

   (b) Header and Footer

   (c) Find and Replace

   (d) Auto Correct and AutoText. 16

9. (a) Name and explain various statistical and string functions in MS-Excel.

   (b) Write a step-by-step procedure to create a presentation, insert slides, edit/format the text on the slides and view the presentation using the Slide Show. 8,8